

Exothermic Welding Powder (C & SC)

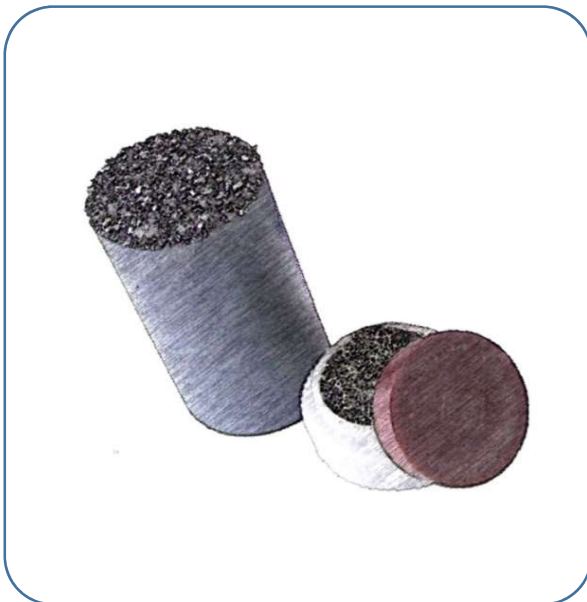
Application:

Exothermic Welding, also known as “thermit welding” or “aluminothermic welding” is a welding process for permanently joining materials (usually copper conductors) that employs the exothermic reaction.

An exothermic reaction requires no external heat or power source, reactant powders and a spark is all that is needed for the high energy reaction. When a spark first reaches the weld metal it causes the reaction within the weld metal, melting and separating the metals.



Structure Outline:



It is the reaction occurring between copper oxide and aluminum powder (weld metal) creating molten super-heated copper and aluminum oxide slag.

Specification:

"PetWeld" exothermic welding powder tubs are provided with metal disks and quick wicks.

Order Code	Description	Tube Color	Suitable Metallic Disk Size	Box. Qty	Weight (Kg)
C-32	General Purpose	Blue	A203	20	36.00
C-45	General Purpose	Blue	A203	20	53.00
C-65	General Purpose	Blue	B207	10	75.00
C-90	General Purpose	Blue	B207	10	102.00
C-115	General Purpose	Blue	B207	10	129.00
C-150	General Purpose	Blue	C281	10	165.00
C-200	General Purpose	Blue	C281	10	220.00
C-250	General Purpose	Blue	C281	10	274.00
SC-25	for CP Purpose	Yellow	A203	20	29.00
SC-32	for CP Purpose	Yellow	A203	20	36.00
SC-45	for CP Purpose	Yellow	A203	20	53.00
SC-65	for CP Purpose	Yellow	B207	10	75.00
SC-90	for CP Purpose	Yellow	B207	10	102.00
SC-115	for CP Purpose	Yellow	B207	10	129.00
SC-150	for CP Purpose	Yellow	C281	10	165.00

Title:		Document No.:					
Exothermic Welding Powder (C & SC)	Rev.:	0	Issued For Approval	97/10/20	K. J.	M.R.Hedayati	M.R.Hedayati
	Page:	1/2	Description	Date	Prepared	Checked	Approved

DATA SHEET

KEY INFORMATION	Product Full Name	Petunia Trade Name	Material Specification	Classification				Catalogue No.
				Earthing System Ok	Lightning Protection	Termite Welding	Cathodic Protection	

TYPE OF PRODUCTION	Casting (Sand, Centrifugal, Die, Permanent Mould)	
	Forging	
	Extrusion	
	Pressing	
	Rolling	
	Rod / Bar Processing	
	strip	

FINISHING METHOD	Polish	
	Painting	
	Plating	
	N.A.	

INSTALLATION ACCESSORIES	Cat. No.

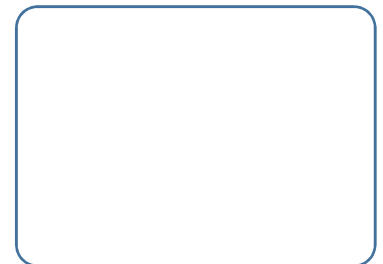
ACCESSORIES	Cat. No.1	Cat. No.2	Cat. No.3	Cat. No.4	Cat. No.5	Cat. No.10

5 YEARS SPARE PARTS	N.A.
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CORROSION CARE ON INSTALLATION	Al (Aluminium)	Al	Cu	ss	Cu/Sn	St/HD	Ct	Br/Ni
	Cu (Copper)							
	SS (Stainless Steel)							
	Cu/Sn (Tin Plated Copper)							
	St/HD (Hot Dip Galvanized Steel)							
	Ct (Steel in Concrete)							
	Br/Ni (Nickle Plated Brass)							

PACKING & SHIPMENT REQUIREMENTS	Anti Vibration	Anti Rain & Moisture	Usual With Care	Fragile	UV Protection

STORAGE CONDITIONS	Outdoor Sheltered	Outdoor Direct Exposure	Outdoor Sunlight Only	Indoor Room Condition	Indoor Controlled	Stored Sealed
	Ok					



ELECTRICAL PROPERTIES	Dielectric Constant	Dielectric Strength	Dissipation Factor	Electrical Resistivity (Ω/cm)	Volume Resistivity

MINIMUM SHELF LIFE @30°C & 60% HUMIDITY	Years			
	1	2	3	4
			Ok	

INSTRUCTION FOR USE	N.A.	Ok
	Each package shall contain instruction manual	

SEVICE ENVIRONMENT	Direct Burial in Natural Soil	Direct Burial in Alkali Soil	Direct Burial In Acidic Soil	Usual Atmosphere	Humidity Atmosphere	Polution Atmosphere	Immersed In Water
	Ok			Ok			

ALTERNATIVES	1	2	3	4	5

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Title:	Exothermic Welding Powder (C & SC)
Application:	Exothermic Welding, also known as "thermit welding" or "aluminothermic welding" is a welding process for permanently joining materials (usually copper conductors) that employs the exothermic reaction. An exothermic reaction requires no external heat or power source, reactant powders and a spark is all that is needed for the high energy reaction. When a spark first reaches the weld metal it causes the reaction within the weld metal, melting and separating the metals.
Spec.:	"PetWeld" exothermic welding powder tubs are provided with metal disks and quick wicks.
Material:	It is the reaction occurring between copper oxide and aluminum powder (weld metal) creating molten super-heated copper and aluminum oxide slag.